SECTION 3 System Overview

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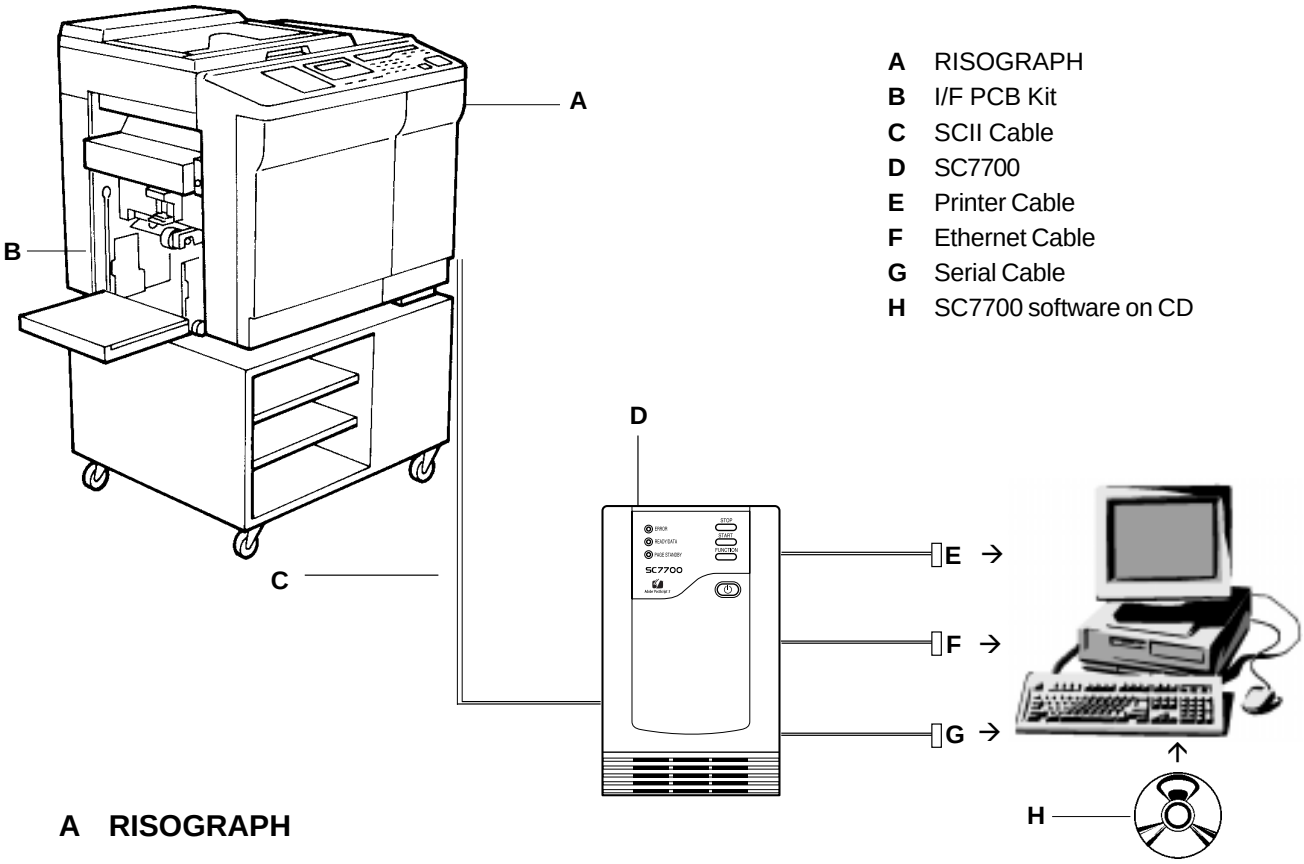
SYSTEM OVERVIEW

1. CONNECTION OVERVIEW



A RISOGRAPH
B I/F PCB Kit
C SCII Cable
D SC7700
E Printer Cable
F Ethernet Cable
G Serial Cable
H SC7700 software on CD

A RISOGRAPH

A SC7700 compatible RISOGRAPH model

B I/F PCB Kit (supplied separately)

The correct I/F PCB kit must be used for the RISOGRAPH model. When the kit is installed there is an external connector at the rear of the RISOGRAPH for connection to the SC7700.

C SC II Cable (Supplied)

A 10 m (32 ft) video cable for connection between the SC7700 and RISOGRAPH.

This special cable carries print data to the RISOGRAPH, scan data to the SC7700, print and scan commands to the RISOGRAPH and RISOGRAPH status information to the SC7700.

D SC7700 (supplied)

The SC7700 unit

E Printer Cable: Parallel Cable (not supplied)

The parallel cable required is a D25 to 36pin IEEE 1284b (not supplied) cable for connection of the SC7700 to a standard PC printer port. This is an IEEE 1284 compliant cable. A parallel connection is the only other connection possible when using a single PC without a network card for printing.

The parallel connection will allow bidirectional communication if supported by the PC and the operating system.

F RJ45 Ethernet Cable (not supplied)

An RJ45 Ethernet cable is used for connection to a network using Ethertalk or TCP/IP. The connector type at the SC7700 must be RJ45. If one Macintosh or one Windows PC is to be connected to the SC7700 without using a network hub then a 'crossover' cable must be used. However it is recommended that a hub and standard drop cables are used. Different catagory cables may be used for 10BaseT and 100BaseTX communications. Check with the network administrator that the correct cable is used. RISO recommend S/UTP cables.

For more information on connecting to a Macintosh or to a network see the Technical Administrators Guide.

G Serial Connection (not supplied)

A serial connection is available but is not used for printing, scanning or feedback, but is used for controlling and monitoring the SC7700. The serial cable is not supplied but should have a 9 pin D type female connector at the SC7700 end. The cable must be a 7 wire nul modem (cross cable) type.

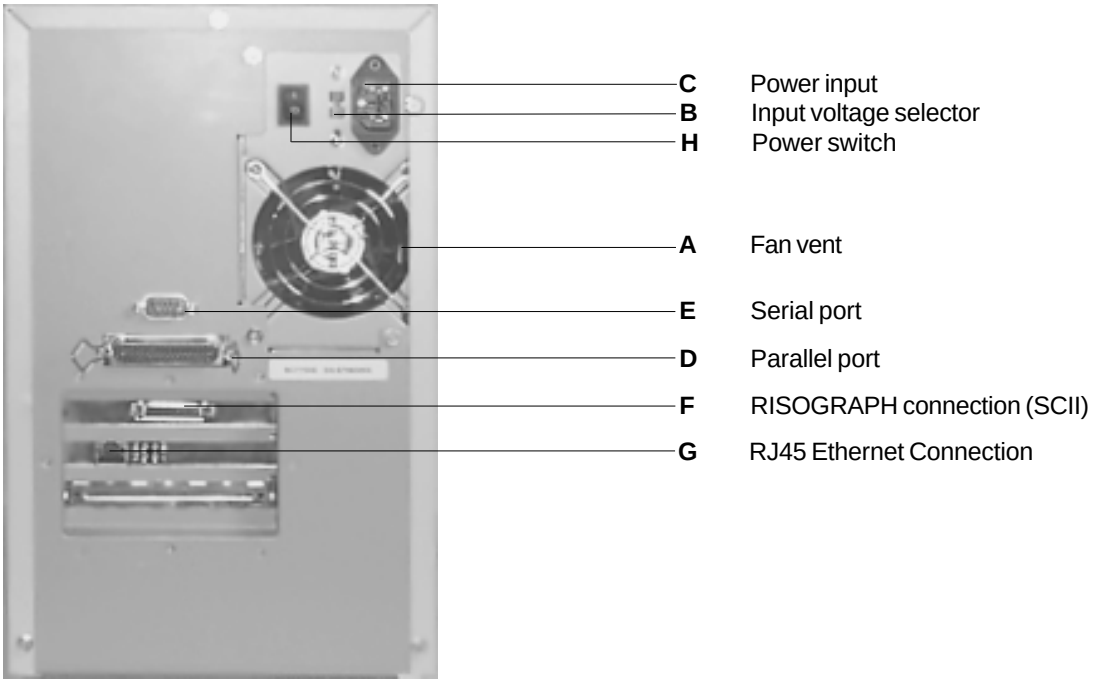
H Computer Software for Printing and Scanning (RISO Console and RISO Scan)

Printer drivers (supplied - see below) are required for printing and should be installed on each computer that will be used for printing. Utility software should be installed on every computer which is used for any of the following functions:

- set up of the SC7700
- controlling the Risograph
- customising SC7700 defaults
- reconfiguration of SC7700 settings
- downloading of PS files
- monitoring & control (TCP/IP and RS232 only)
- scanning
- maintaining the SC7700 hard disk and RAM contents
- managing temporary and permanent resident fonts (in the SC7700 hard disk and RAM) including downloading, deleting and displaying (printouts, and displaying on screen if bidirectional connection used)
- troubleshooting including printing out test pages

For more information on the use of the utility software see the Technical Administrators Guide.

2. SC7700 REAR PANEL



A Fan Vent

There are several air venting holes around the SC7700 unit of which this is the main outlet.

⚠ Caution: All surfaces of the SC7700 should be kept clear and space allowed for unrestricted airflow.

B Input power Selector

This can be set from 100-125V/200-240V. This must be checked before connecting power.

⚠ Caution: Check that this switch is set correctly before connecting power to the SC7700.

C Power Input

For connection of power to the SC7700 use a connector (supplied) similar to that used for a computer.

⚠ Caution:

- ensure that the power connection conforms to local safety standards.
- ensure the input power selector is correctly set before connecting (see above).
- do not connect power if any of the covers are damaged or are not fixed correctly - seek technical advice.
- do not connect to the power if the unit is wet.
- isolate power if the unit makes abnormal noise or emits fumes or odours - seek technical advice.

D Parallel Port

A 36 pin male plug(not supplied) connects to the LPT port (parallel port) of the computer.

E Serial Port

A 'D' type 9 pin male socket for connection using an RS 232 7 wire null modem serial cable (not supplied) to the COM port (serial port) of the computer. Note - the serial connection is not used to print, it is only used for monitoring and controlling the SC7700 when an Ethernet port is not available. The speed setting for the serial port is 38400bps eight bits no parity and one stop bit (8N1) with hardware handshaking.

F RISOGRAPH Connection

For connection of the SC7700 to the RISOGRAPH's interface PCB port (supplied separately) use the 10 m SC II cable (supplied).

G RJ45 Ethernet Network/Macintosh connection

Connection of the SC7700 to a network is possible only through an RJ45 connection. To connect the SC7700 to a network hub a `drop cable` must be used, if the SC7700 is to be directly connected to a computer then a `cross over cable` must be used.

H Power Switch

This switches off the electrical supply to the PSU. Having this switch in the off position will also prevent the front panel power switch from turning the SC7700 on.

3. SC7700 FRONT PANEL

A Power Switch

Press once to switch on, and once to switch off.

When the unit is switched off the current job and fonts downloaded to RAM are lost, if a job is currently being sent this may also be lost. However defaults and fonts downloaded to the SC7700`s internal hard disk are retained, also jobs in the Normal and Hold queues are retained.

When the unit is switched on it takes approximately 95 seconds before it is ready for use.

B Stop Key

When the Risograph is `busy` pressing the stop button terminates the processing action after the current action eg. master making or during a pause. When the Risograph is `ready` and waiting SC7700 instruction the SC7700 skips the processing action and starts work on the next page.

C Start Key

When held down during startup this causes a test page to be printed. During a pause in a job it is used to restart the job.

D Function Key

When pressed during a pause after the master making process the function key causes the same master to be made again. The same master will also be made if pressed during a pause in the printing, provided some pages are still to be printed. In this mode Pause after master is set. To receive the second page press start or the I/F key. If the Function key is held during startup a settings page and a font sample page are both printed.

1 Stop key and Start key pressed during start up

When the Stop key and Start key are both held down during startup the SC7700 returns to its factory default settings. **Caution:** these defaults also change the network settings.

2 Stop key and Function key pressed during start up

When the Stop key and Function key are both held down during startup the SC7700`s hard disk will be initialised. **Caution:** Network settings are changed to their defaults, Hold queue, Normal queue and fonts are deleted.

Stop key and Function key pressed during start up

When pressed while the SC7700 is processing a job, the job gets deleted and the SC7700 moves onto the next job if there is one pending.

E Error LED

On steady - the Risographs operation has been interrupted. Check the Risograph directly or via the SC7700 utility to determine the problem. Once the errror LED goes out the job can be continued or cancelled using one of the control keys.

Flashing - no communication is possible with the Risograph, the Risograph is off, disconnected or busy off line, or any communication error between the Risograph and the SC7700.

F Ready / Data LED

On Steady - Ready to receive data. Power is on and the SC7700 is initialised and ready.

Flashing Rapidly - Processing data. Data has been received from the host and is being processed ready for printing (Ripping.)

Flashing slowly - waiting for more data / end of job. While the current page is printing or during a pause in communication with the host (not Ripping but paused.)

This indicates the status of the CPSI. The LED will not blink when data is being written to a queue, or any other process which does not require PS code processing.

G Page Standby LED

On steady - a complete page of data has been processed ready to make a master

Flashing - the Risograph is paused and the current page of data is held in memory waiting for user instruction.

Off - no complete page of data is in the SC7700`s buffer.